

Title (en)  
Power generation system and corresponding power generating method

Title (de)  
Energieerzeugungssystem und zugehöriges Verfahren zur Energieerzeugung

Title (fr)  
Système de génération d'énergie et procédé correspondant de génération d'énergie

Publication  
**EP 2312126 A1 20110420 (EN)**

Application  
**EP 09172601 A 20091008**

Priority  
EP 09172601 A 20091008

Abstract (en)  
A power generation system contains a compressor stage, a pre-burner stage, a combustion stage and a turbine stage. The pre-burner stage heats a portion of flow from the compressor stage to impart a higher temperature within the flow. The heated flow is directed to the combustion stage which contains at least one pulse detonation combustor. Downstream of the combustion stage is a turbine stage. In a further embodiment of the power generation system a fuel is heated prior to the combustion within the combustion stage.

IPC 8 full level  
**F01D 19/02** (2006.01); **F02C 5/12** (2006.01); **F02C 7/08** (2006.01); **F02C 7/224** (2006.01); **F23R 7/00** (2006.01)

CPC (source: EP)  
**F01D 19/02** (2013.01); **F02C 5/12** (2013.01); **F02C 7/08** (2013.01); **F02C 7/224** (2013.01); **F23R 7/00** (2013.01)

Citation (applicant)

- EP 1536117 A2 20050601 - GEN ELECTRIC [US]
- EP 1501139 A2 20050126 - GEN ELECTRIC [US]
- JP 2005065454 A 20050310 - JFE ENG KK
- US 2009241507 A1 20091001 - TANGIRALA VENKAT ESWARLU [US], et al
- US 2007180810 A1 20070809 - CHAPIN DAVID M [US], et al

Citation (search report)

- [XYI] EP 1536117 A2 20050601 - GEN ELECTRIC [US]
- [XYI] EP 1501139 A2 20050126 - GEN ELECTRIC [US]
- [XY] JP 2005065454 A 20050310 - JFE ENG KK
- [XI] US 2009241507 A1 20091001 - TANGIRALA VENKAT ESWARLU [US], et al
- [XI] US 2007180810 A1 20070809 - CHAPIN DAVID M [US], et al
- [A] US 5873240 A 19990223 - BUSSING THOMAS R A [US], et al

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FR3041702A1; CN111520767A; GB2498005A; GB2498005B; US11619172B1

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AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
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